

**PERIOD I**  
**TERM I COURSE COMMITTEES**

5 Weeks / 161 hours

<u>Course Name</u>	<u>Theoretic</u>	<u>Application</u>	<u>Total</u>
Biostatistics-Computer	20	-	20
Biochemistry	16	4	20
Medical Biology and Genetics	35	4	39
Medical Physics	12	-	12
Elective	2	-	2
Elective	2	-	2
Elective	2	-	2
Module 1	6	-	6
Module 2	6	-	6
<b>TURK 110 Turkish Language</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>AIT 110 Ataturk's Principles and Revolution T.</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>TFYD 100 English</b>	<b>10</b>	<b>-</b>	<b>10</b>
<b>BESR 100 Physical Education and Sport</b>	<b>10</b>	<b>-</b>	<b>10</b>
<b>TOTAL</b>	<b>153</b>	<b>8</b>	<b>161</b>

**COURSES**

History of  
Civilisation  
Sociology  
Philosophy  
Turkish  
Historical  
Folk Music  
Folk Culture (Folklore)

**BASIC MEDICAL COURSE BOARD I**

**Biostatistics-Computer**

Scientific method and statistics, general information about research, stages of research, research planning and research types, descriptive research, observational research, experimental research, operations research, special statistical methods in the field of health, sample selection, distribution of subjects to control and experimental (research) groups, development of tools and materials to be used in the study (questionnaire, examination form, follow-up form), planning of data collection, determination of how to process and analyse data, sorting and evaluation of data, writing the research report, footnote and reference indication.

**Biochemistry**

Introduction to chemistry, atomic structure, chemical bonds, ionic equilibrium, introduction to organic chemistry, organic acids and bases, definition and subject of biochemistry, water metabolism, solutions, water, weak acids and bases, buffers, alkanes, cycloalkanes and molecular conformation, stereochemistry and optical isomerism.

**Medical Biology and Genetics**

Structure of living things, chemical compounds in the structure of living things, cell, cell organelles, nucleus, metabolism, molecular thermodynamics and bioenergetic concepts, enzymes and coenzymes, bacteria, bacterial genetics, viruses, reproductive physiology of viruses, virus genetics,

**Medical Physics**

Introduction to medical physics, gravity, mass, weight and gravitation, Newton's Laws, balance of forces, friction force, mechanics, biomechanics, biomaterials.

**Modules 1 and 2:**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**History of Civilisation** :Ancient Anatolian Civilisations

**Sociology** :Introduction to sociology

**Philosophy** :Philosophical thought

**Turkish History** :Overview of Ancient Turkish History

**Folk Music** :History of Turkish Folk Music

**Folk Culture (Folklore)**: Historical Development of Folklore

## **BASIC MEDICAL COURSE BOARD II**

8 Weeks / 249 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Biostatistics-Computer	21	-	21
Biochemistry	42	8	50
Medical Biology and Genetics	40	-	40
Medical Physics	19	4	23
Behavioural Sciences	14	-	14
Deontology	16	-	16
Elective	3	-	3
Elective	3	-	3
Elective	3	-	3
Module 3	6	-	6
Module 4	6	-	6
<b>TURK 110 Turkish Language</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>AIT 110 Ataturk's Principles and Revolution T.</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>TFYD 100 English</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>BESR 100 Physical Education and Sport</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>TOTAL</b>	<b>237</b>	<b>12</b>	<b>249</b>

### **SELECTED**

History of

Civilisation

Sociology

Philosophy

Turkish Historical

Folk Music

Folk Culture (Folklore)

## **BASIC MEDICAL COURSE BOARD II**

### **Biostatistics-Computer**

Frequency distributions, probability distributions, estimation of population values, general information about significance tests, does the sample represent the population? assumption and conformity analyses, parametric significance tests, nonparametric significance tests, correlation and regression analyses, time series analyses, statistical methods in biomedical experiments, parametric significance tests, nonparametric significance tests.

### **Biochemistry**

Definition and subject of biochemistry, water metabolism, solutions, weak acids and bases, buffers, introduction to metabolism, free energy and principles of thermodynamics, bioenergetics and oxidative phosphorylation, chemistry of carbonhydrates, chemistry of lipids and lipoproteins, amino acids and proteins, colorimetry, enzymes, haemoglobin, myoglobin.

### **Medical Biology Genetics**

Cell types, cell division, mitosis and meiosis, spermatogenesis, oogenesis, fertilisation, embryogenesis and differentiation, recombinant DNA technology, applications of recombinant DNA technology in medicine, immunology and general immune concepts, immunology and immunogenetics, tumour immunogenetics, molecular basis of cancer cell development, growth factors and oncogenes, stimulatory molecular disorder and cancer.

### **Medical Physics**

Electronic structure of elements, conduction of electricity in different media, voltage and current, D.C and A.C concepts, electrical circuit elements, electrical circuit laws, semiconductor electronics, electronic circuit elements,

operational amplifiers pulse generators, electric field, magnetic field and electromagnetism, electronic measurements, bioelectricity, electrical safety, grounding installations.

#### **Behavioural Sciences**

Introduction to behavioural sciences and the nature of psychology, biological foundations of behaviour, perception, learning and theories, memory and its types, thinking, motivation and theoretical perspective.

#### **Deontology**

Disease and health, contemporary views in medicine and the purpose of medicine, medical ethics, professional secrecy, patient rights, deontological regulations, scientific ethics, Helsinki and Edinburgh Declarations, the concept of basic health services, health goals for all by the year 2000, health for all in the 21st century.

#### **Modules 3 and 4**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

#### **History of Civilisation**

Medieval Christian Culture, Islam and Seljuk Civilisation in Anatolia

#### **Sociology**

Organisation of social life, socialisation.

#### **Philosophy**

Movements in Philosophy

#### **Turkish History**

Overview of Ancient Turkish History

#### **Folk Music**

Turkish Folk Music by Region

#### **Folk Culture (Folklore)**

The Beginning of Folk Culture Research in Turkey

### **BASIC MEDICAL COURSE BOARD III**

5 Weeks / 158 hours

<u>Course Name</u>	<u>Theoretic</u>	<u>Application</u>	<u>Total</u>
	<u>al</u>		
Biostatistics-Computer	20	-	20
Biochemistry	15	6	21
Medical Biology and Genetics	30	-	30
Behavioural Sciences	14	-	14
Elective	3	-	3
Elective	2	-	2
Elective	2	-	2
Module 5	6	-	6
Module 6	6	-	6
<b>TURK 110 Turkish Language</b>	<b>8</b>	-	<b>8</b>
<b>AIT 110 Ataturk's Principles and Revolution T.</b>	<b>16</b>	-	<b>16</b>
<b>TFYD 100 English</b>	<b>12</b>	-	<b>12</b>
<b>BESR 100 Physical Education and Sport</b>	<b>7</b>	-	<b>7</b>
<b>TOTAL</b>	<b>152</b>	<b>6</b>	<b>158</b>

#### **CHOOSERS**

History of  
Civilisation  
Sociology  
Philosophy

Turkish  
Historical Folk  
Music  
Folk Culture (Folklore)

### **BASIC MEDICAL COURSE BOARD III**

#### **Biostatistics**

Description of events related to health and disease, examination of the demographic structure of the society, criteria related to health and disease, recognition of the service area, statistical methods related to population, international classification of diseases and documentation of causes of death, statistical methods related to family planning services and life table construction, statistical methods related to preventive services, statistical methods related to hospital services, statistical methods related to health manpower, evaluation of diagnosis and screening methods.

#### **Biochemistry**

Digestion and absorption of carbohydrates, glycolysis, purine metabolism and Krebs cycle, pentose phosphate pathway, gluconeogenesis and glycogenolysis, gluconeogenesis, disorders of glycogen metabolism, hormonal control, metabolism of monosaccharides, glycoprotein metabolism.

#### **Medical Biology and Genetics**

Mendelian genetics, chromosome theory in heredity, nature of genetic material, structure of DNA, organisation of DNA in chromosomes, structure and types of RNA, RNA synthesis, RNA processing, genetic code, protein synthesis, control of protein synthesis, mutations, molecular techniques

#### **Behavioural Sciences**

Lifelong development processes, effects of development on daily life, personality and personality theories, psychology of abnormal behaviours, psychotherapies and types of approaches, social psychology

#### **Modules 5 and 6:**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**History of Civilisation:** Ottoman Art and Culture, Renaissance Thought and Culture

**Sociology:** Social interaction, social groups and social structure, culture and social (groups) institutions.

**Philosophy :**Science and philosophy

**Turkish History:** Overview of Ancient Turkish History

**Folk Music:** Turkish Folk Music by Region **Folk Culture**

**(Folklore):** Field of Folklore

#### BASIC MEDICAL COURSE BOARD IV

7.5 Weeks / 217 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Informatics	20	6	26
Biochemistry	37	8	45
Medical Biology and Genetics	30	4	34
Physiology	8	-	8
Histology and Embryology	10	4	14
Anatomy	6	-	6
Elective	2	-	2
Elective	2	-	2
Elective	2	-	2
Module 7	6	-	6
Module 8	6	-	6
<b>TURK 110 Turkish Language</b>	<b>24</b>	<b>-</b>	<b>24</b>
<b>AIT 110 Ataturk's Principles and Revolution T.</b>	<b>16</b>	<b>-</b>	<b>16</b>
<b>TFYD 100 English</b>	<b>14</b>	<b>-</b>	<b>14</b>
<b>TOTAL</b>	<b>195</b>	<b>22</b>	<b>217</b>

#### SELECTED

History of  
Civilisation  
Sociology  
Philosophy  
Turkish  
Historical Folk  
Music  
Folk Culture (Folklore)

#### BASIC MEDICAL COURSE BOARD IV

##### Informatics

Definition and properties of computer and basic concepts, introduction to MS-DOS operating system and basic commands, introduction to Windows operating system, use of some software programmes on computer, use of some statistical programmes on computer, basic information about internet and its use, basic information about library and documentation

##### Biochemistry

Absorption and digestion of fats, synthesis of fatty acids, synthesis and breakdown of triglycerides, synthesis and breakdown of cholesterol, bile acids, lipoprotein metabolism, phospholide and glycolipid synthesis, breakdown of amino acids, transamination and oxidative deamination, urea cycle, metabolism of carbon skeletons of amino acids, disorders of amino acid metabolism, digestion and absorption of proteins, absorption of proteins, structure and metabolism of nucleic acids, conversion of amino acids to special products, free radicals and antioxidant systems.

##### Medical Biology and Genetics

Morphological properties of chromosomes, chromosome terminology, cytogenetic laboratory methods, molecular cytogenetic methods, methods of examining genetic factors, chromosomal irregularities, autosomal chromosome diseases, gonosomal chromosome diseases, autosomal dominant inheritance, autosomal recessive inheritance, X chromosome linked inheritance, Y chromosome linked inheritance, multifactorial inheritance, mitochondrial inheritance and diseases, linkage and chromosome maps, population genetics, prenatal diagnosis methods.

##### Physiology

Introduction to human physiology, general information about body fluids and water distribution in the body, homeostasis, cell physiology, functions of cell organelles, definition of physical systems separated by a membrane, membranes and substance passage through membranes.

**Histology and Embryology**

Introduction to histology and embryology and definitions, examination methods in histology, tissue preparation and histochemical techniques, tissue preparation technique for electron microscopy, definition of cells, organelles and inclusions, cell organelles at light and electron microscope level, cell cycle, division, aging and differentiation.

**Anatomy**

Introduction to anatomy - general information about bones, joints and muscles.

**Modules 7 and 8**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**History of Civilisation**

Culture and art in the age of enlightenment

**Sociology**

Health and medicine as a social institution, concepts of health and illness in social and cultural context, doctor status, professional socialisation.

**Philosophy**

Creative thinking and philosophy

**Turkish History**

Overview of Ottoman History

**Folk Music**

Turkish Folk Music according to regions

**Folk Culture (Folklore)**

Sources of Folklore

**CELL and TISSUE BIOLOGY ) COURSE BOARD V**

6 Week / 169 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Biochemistry	16	4	20
Physiology	20	-	20
Histology and Embryology	25	10	35
Anatomy	30	46	76
Elective	2	-	2
Elective	2	-	2
Elective	2	-	2
Module 9	6	-	6
Module 10	6	-	6
<b>TOTAL</b>	<b>109</b>	<b>60</b>	<b>169</b>

**SELECTED**

History of  
Civilisation  
Sociology  
Philosophy  
Turkish  
Historical  
Folk Music  
Folk Culture (Folklore)

**CELL and TISSUE BIOLOGY ) COURSE BOARD****Biochemistry**

Water soluble vitamins, fat soluble vitamins, trace elements, membrane structure and transport systems, extracellular matrix biochemistry, muscle biochemistry, biochemistry of neurotransmitters.

**Physiology**

Substance transport in cell membrane, ion balance and pH, ion balance and resting membrane potential, formation and conduction of action potentials, communication theory, reflex arc and communication pathways used in organism, synapse and synapse physiology, receptors, second messengers, nerve muscle junction and excitation contraction relationship, skeletal muscle, smooth muscle and cardiac muscle contraction mechanism, heat output and thermoregulation.

**Histology and Embryology**

Introduction to tissues, introduction to epithelial tissue and cover epithelium, gland epithelium histology, introduction to support tissue and connective tissue histology, connective tissue types, adipose tissue, cartilage tissue histology, bone tissue histology, osteogenesis, muscle tissue (smooth muscle, skeletal muscle and cardiac muscle) histology, nervous tissue histology.

**Anatomy**

Columna vertebralis, costae and sternum, joints of upper extremities, joints of columna vertebralis, back region, superficial back muscles, anterior region of shoulder and arm, breasts, posterior region of shoulder and arm, anatomy of axilla and plexus brachialis, anterior region of forearm and fossa cubiti, posterior region of forearm, hand anatomy and upper extremity joints, lower extremity bones, lower extremity joints - gluteal region - plexus lumbosacralis, anterior and medial regions of the thigh, posterior and lateral regions of the thigh, fossa poplitea, anterior and lateral regions of the leg, posterior region of the leg, foot anatomy and lower extremity joints.

**Module 9 and 10:** Theoretical explanation of the problems associated with the courses described in this course board in cooperation with the relevant disciplines.

**History of Civilisation :** Modernism and art.

**Sociology :** Patient-doctor relationship, basic models, patient status, illness-related behaviour or patient role.

**Philosophy :** Culture, enlightenment and philosophy

**Turkish History :** Overview of Ottoman History

**Folk Music :** Literary Structure of Turkish Folk Music

**Folk Culture (Folklore):** Sources of Folklore

**TFYD 100 English:**

To be able to read and understand texts of medium difficulty written in or out of the field, to write compositions using simple and complex sentences, to express thoughts orally with simple and comprehensible sentences.

## SEMESTER II

### TERM II COURSE BOARDS CELL AND

#### TISSUE BIOLOGY 2) COURSE BOARD

7 Week / 213 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Anatomy	14	14	28
Physiology	28	18	46
Microbiology	53	10	63
Histology and Embryology	24	2	26
Biochemistry	20	4	24
Module 1	6	-	6
Module 2	6	-	6
<b>TFYD 201-Reading and Speaking in a Foreign Language (English)</b>	<b>14</b>	<b>-</b>	<b>14</b>
<b>TOTAL</b>	<b>165</b>	<b>48</b>	<b>213</b>

#### CELL AND TISSUE BIOLOGY 2) COURSE BOARD

##### **Anatomy**

Head bones, skull skeleton, upper extremity bones, facial anatomy and scalp, suboccipital region and deep back muscles.

##### **Physiology**

Electrical events at synapses, inhibition and facilitation at synapses, chemical transmission of synaptic activities, neuromuscular transmission, general characteristics of reflexes and stretch reflex, polysynaptic reflexes, autonomic nervous system, introduction to blood physiology and functions of blood, physical and chemical properties of blood, regulation of blood production, erythrocyte functions, Regulation of leukocyte production, leukocytosis and leukopenia, physiological characteristics of bleeding, erythrocyte destruction, polycythemia, anemia and its types, haemophilia, platelets, thrombocytopenia, coagulation, blood groups, plasma proteins, transfusion, development of immune system, humoral immunity, cellular immunity, lymphokines, cytokines, haemostasis and fibrinolytic system.

##### **Microbiology**

Introduction to microbiology, structure and physiology of bacterial cells, production of microorganisms, bacterial isolation methods, bacterial nutrition and growth, bacterial metabolism, bacterial genetics, sterilisation, disinfection, bacterial toxins and enzymes, host-microorganism relations, normal flora and opportunistic infections, natural defence mechanism of the organism, organs and cells involved in immunity, mechanism of immunity, immunoglobulins, antibody synthesis mechanisms, antigens, antigen-antibody reactions, agglutination, tests, precipitation, flocculation, opsonin and bacteriotropins, toxin-antitoxin reactions, cellular immunity, complement and complement association assay, Coombs tests, autoimmunity, vaccines and skin tests, allergy and hypersensitivity reactions, chemotherapeutics and antibiotics, antibiotic sensitivity tests, morphological and chemical structure of viruses, reproduction of viruses and cell cultures, morphological and physiological characteristics of fungi, general information about Riketsiyalar, Staphylococci, Streptococci, Neisserialar, Brucella, Shigella, Yersinia, Chlamydia, Mycoplasma, non-spore anaerobes, spore anaerobes.

##### **Histology and Embryology**

Introduction to human embryology, spermatogonium and spermatogenesis, ovum and oogenesis, ovulation and corpus luteum, fertilisation, cleavage and blastocyst formation, implantation and bilaminar disc formation, gastrulation, trilaminar disc formation and neurulation, embryonal period, fetal period, non-embryo formations (fetal membranes, placenta, amnion, umbilical cord), congenital malformations, multiple pregnancies, blood tissue histology, blood production.

##### **Biochemistry**

Introduction to clinical biochemistry and quality control, blood biochemistry, plasma proteins, protein electrophoresis, coagulation biochemistry, tumour markers, tumour biochemistry, plasma enzymes, erythrocyte metabolism,

haemoglobin structure and synthesis, haemoglobin electrophoresis, folic acid and vitamin B12, biological basis of diseases, biochemistry of trauma and tissue damage.

**Module 1 and 2:** Theoretical explanation of the problems associated with the courses described in this course board with the cooperation of related disciplines.

### CIRCULATION - RESPIRATION COURSE BOARD

6 Week / 183 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Anatomy	25	15	40
Physiology	46	10	56
Microbiology	21	4	25
Histology and Embryology	22	8	30
Biophysics	8	-	8
Module 3	6	-	6
Module 4	6	-	6
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<b>TFYD 201-Reading and Speaking in a Foreign Language (English)</b>	<b>12</b>	<b>-</b>	<b>12</b>
<b>TOTAL</b>	<b>146</b>	<b>37</b>	<b>183</b>

### CIRCULATION - RESPIRATION COURSE BOARD

#### **Anatomy**

Thorax wall anatomy, mediastinum and posterior mediastinum - heart and pericardium, nose and nasal formations, larynx, trachea and lungs, diaphragm and posterior mediastinum, parotid region and temporal region - fossa infratemporalis and pterygopalatina, anterior and lateral regions of the neck, anatomy of the mouth, pharynx, neck root (cervical part of the oesophagus, deep arteries, veins and nerves).

#### **Physiology**

Regulation of cardiac work, arising and conduction of stimulus in the heart, ECG and leads, vectorcardiogram, abnormal rhythms of the heart, mechanical events in the heart cycle, pressure changes in the heart, functions of heart valves and heart sounds, phonocardiogram, cardiac output and its measurement, regulation of heart rate, metabolism of the heart, principles of haemodynamics, capillary circulation, lymphatic and venous circulation, local regulation of circulation, systemic regulation mechanisms of circulation, cardiac function curves, coronary circulation, cerebral circulation, special circulatory systems, cardiovascular homeostasis in exercise and gravity, cardiovascular homeostasis in haemorrhage and haemorrhagic shock, fainting, blood pressure and its regulation, cardiovascular homeostasis in hypertension and heart failure, introduction to respiratory physiology and mechanics of the respiratory system, lung volumes and capacities, alveolar ventilation and pulmonary circulation, transport and regulation of oxygen and carbon dioxide in blood and body fluids, respiratory centres and regulation of respiration, respiratory regulation in exercise and hypoxia. hypoxia, hypercapnia, hypocapnia, effects of pressure increase and decompression sickness, artificial respiration.

#### **Microbiology**

Haemophilous bacteria, Bordetella, Mycobacterium tuberculosis, other Mycobacteria, Mycobacterium leprae, Corynebacterium diptheria, other Corynebacteria, Pasteurella, Francisella, Listeria, Legionella, Bartonella, Poxviruses Paramyxoviruses (Parainfluenza, measles, Respiratory Syncytial Virus, mumps, Newcastle), Orthomyxoviruses (Influenza A, B, C.), retroviruses, AIDS, bacteriophages, tumour viruses.

#### **Histology and Embryology**

Development of the circulatory system, foetal circulation, histology of the heart, structure of the vessels, immune system and its cells, lymphoreticular system (spleen, thymus, lymph nodes and tonsils), development of the facial and respiratory system, histology of the upper respiratory tract (nose, nasopharynx, larynx and trachea), bronchial tree and histology of the lungs.

### Biophysics

Oxygen demand of living organisms, mechanics of gases, alveolar mechanics, solubility of blood gases, external respiratory mechanics, measurement of lung volume and capacity, fluid mechanics and circulatory dynamics, kinetic energy and vascular dilatability in circulation, viscous and eddy flow, impulse and conduction in the heart, heart power, blood pressure and blood flow rate measurement.

**Module 3 and 4:** Theoretical explanation of the problems associated with the courses described in this course board with the cooperation of related disciplines.

## DIGESTION AND METABOLISM COURSE BOARD

7 Week / 204 hours

<u>Course Name</u>	<u>Theoretic</u> <u>al</u>	<u>Application</u>	<u>Total</u>
Anatomy	26	20	46
Physiology	35	2	37
Microbiology	22	5	27
Histology and Embryology	18	10	28
Biochemistry	36	4	40
Module 5	6	-	6
Module 6	6	-	6
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<b>TFYD 201-Reading and Speaking in a Foreign Language (English)</b>	<b>6</b>	<b>-</b>	<b>6</b>
<b>TFYD 202-Vocational Foreign Language I</b>	<b>6</b>	<b>-</b>	<b>8</b>
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<b>TOTAL</b>	<b>163</b>	<b>41</b>	<b>204</b>

## DIGESTION AND METABOLISM COURSE BOARD

### Anatomy

Anatomy of the anterior abdominal wall, abdominal part of the oesophagus and stomach, peritoneum, omentum minus, majus and bursa omentalis, duodenum, jejunum and ileum, large intestines, liver and biliary tract, pancreas and spleen, arteries and nerves of the digestive tract, kidneys and ureters, vesica urinaria and urethra, posterior abdominal wall, large vessels and nerves in the posterior abdominal wall.

### Physiology

Introduction to digestive physiology, hunger, satiety, appetite, food intake, chewing and swallowing, motor functions of the stomach, small intestinal movements, colon movements, digestive tract secretory functions, general principle of digestive tract secretions, saliva, stomach, pancreas and oesophageal secretion, metabolic functions of the liver, innervation of the digestive system, small intestine and large intestine secretion, blood and lymph circulation, hormonal control of the digestive system, digestion of various foods, basic principles of gastrointestinal absorption, absorption in the small intestine, absorption in the large intestine and formation of faeces, general disorders of the gastrointestinal tract, carbohydrate metabolism, intermediate metabolism, fat and protein metabolism, energy balance and basal metabolism, physiological functions of vitamins, obesity, thermoregulation, organisation of renal functions and renal circulation, glomerular filtration, renal blood flow and regulation of glomerular filtration, reabsorption and secretion events in renal tubules, renal reflexes, hormones affecting renal function, clearance concept and renal clearance tests, fluid electrolyte metabolism, water and osmolality regulation, acid-base regulation, urine formation, physical and chemical properties of urine, urinary excretion, artificial kidney and transplantation.

### Microbiology

General information about Enterobacteriaceae, saprophytic intestinal bacteria, Proteus- Klebsiella, Pseudomonas, Campylobacter, Salmonella, Vibrios, Bacillus group bacteria, viral hepatitis, general characteristics of protozoa, Entamoebas, Giardia, Balantidium, Toxoplasma, Trypanosoma, food poisoning agents.

### **Histology and Embryology**

Development of digestive system, histology of oral cavity, lips, palate, cheek, tongue, teeth and pharynx, histology of oesophagus and stomach, histology of small intestine, large intestine, appendix, rectum and anal canal, histology of salivary glands (parotid, sublingual and submandibular glands), histology of large digestive glands (liver, gallbladder and pancreas), development of urinary system, histology of kidneys, ureter, bladder and urethra.

### **Biochemistry**

Nutritional biochemistry, liver biochemistry and metabolic functions, liver function tests, biochemistry of diabetes, adipose tissue biochemistry, lipoproteins and atherosclerosis, immunoglobulins and complement system, porphyrins and bile pigments, bilirubin metabolism, fluid electrolyte metabolism, biochemistry of body fluids, urinary and urinary system biochemistry, kidney function tests.

**Module 5 and 6:** Theoretical explanation of the problems associated with the courses described in this course board with the co-operation of related disciplines.

## **AND SYSTEMS COURSE BOARD**

7.5 Weeks / 222 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>	
Anatomy	52	18	70	
Physiology	28	12	40	
Microbiology	16	6	22	
Histology and Embryology	18	8	26	
Biophysics	34	4	38	
Module 7	6	6	6	
Module 8	6	-	6	
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<b>TFYD 202 - Professional Foreign Language</b>	<b>I</b>	<b>14</b>	<b>-</b>	<b>14</b>
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<b>TOTAL</b>	<b>174</b>	<b>48</b>	<b>222</b>	

## **AND SYSTEMS COURSE BOARD**

### **Anatomy**

Introduction to the central nervous system, medulla spinalis, ascending tracts - descending tracts - medulla oblongata - pons - mesencephalon - cerebellum - brain sac, autonomic nervous system - cranial nerves, diencephalon - basal ganglia, morphology of cerebral hemispheres - cerebral hemispheres: sensory and motor regions - cerebral hemispheres: white matter - olfactory pathways, rhinencephalon and limbic system, central nervous system vessels, cerebral membranes and sinuses, cerebral ventricles and cerebrospinal fluid circulation, orbit and its contents - bulbus oculi - visual pathways, ear - vestibular system - auditory pathways, central nervous system: afferent pathways - central nervous system: efferent pathways

### **Physiology**

Introduction to neurophysiology, sleep and wakefulness, pain sensation and analgesia, neurotransmitters, EEG and epilepsy, brain stem, reticular formation and basal ganglia, extrapyramidal system and pyramidal system, functions of thalamus and hypothalamus, limbic system, cerebellum, posture and balance, intelligence, memory, attention, motivation, instinct, introduction to sensory physiology, superficial, deep and visceral senses, anatomical features of the eye, vision, image formation and photoreceptors, visual pathways and centre, colour vision, adaptation to darkness, visual field, sense of balance, anatomical features of the ear and sense of hearing, vestibular system, taste and smell pathways, cerebral blood circulation and cerebrospinal fluid physiology, growth, development and aging physiology.

### **Microbiology**

Neurotropic viruses, Lymphocytic Corio Meningitis, Menengo, Encephalitis lethargic, Subacute Sclerosing Pan Encephalitis, Cr. degenerative disease. G.Barre, Rhabdo viruses, Marburg-Ebola, antiviral drugs, interferon and interferens, Herpes viruses, Adenoviruses, Picorna viruses, Reoviruses, Corona v, Parvoviruses, Papova viruses, Arbo viruses, Toga, Bunya, Arena viruses, Treponemas, Borrelia, Leptospira.

**Histology and Embryology**

Development of the nervous system, central nervous system histology (brain, cerebellum, spinal cord, cerebrospinal membranes, choroid plexus and CSF), peripheral nervous system histology, eye development and histology, ear development and histology, development and histology of skin and its appendages.

**Biophysics**

Functional structure of neurons, membrane resting potential formation, ionic balance in membrane: Nernst and Goldman equations, electrical properties of the neuron and membrane model, stimulation and conduction in the nervous system, motor unit and muscle activity, pain subjectivity and classification, pain control methods, history and indications of neurostimulation, neurostimulation styles, neuroimplantation, safe and effective stimulation parameters, acupuncture technique, biofeedback technique,

EMG technique, brain electropotentials and EEG technique, EEG waves, hearing biophysics, physical properties of sound, audiometry, hearing aids, biophysics of vision, laws of reflection and refraction of light, image refraction on spherical and planar surfaces, lenses, lens defects, visual activity, eye defects, optical instruments (microscope, ophthalmoscope, laryngoscope and otoscope).

**Module 7 and 8:** Theoretical explanation of the problems associated with the courses described in this course board with the co-operation of related disciplines.

**COURSE BOARD**

4.5 Weeks / 136 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Anatomy	9	9	18
Physiology	28	-	28
Microbiology	17	6	23
Histology and Embryology	17	6	23
Biochemistry	22	-	22
Module 9	6	-	6
Module 10	6	-	6
<b>TFYD 202-Vocational Foreign Language I</b>	<b>10</b>	<b>-</b>	<b>10</b>
<b>TOTAL</b>	<b>115</b>	<b>21</b>	<b>136</b>

**COURSE BOARD****Anatomy**

Pelvis, perineum, male genital organs, female genital organs, endocrine organs.

**Physiology**

Introduction to endocrine system physiology and neuroendocrine integration, pituitary, hypothalamus relationship, mechanisms of action and classification of hormones, hypothalamic hormones, adenohypophysis hormones, neurohypophysis hormones, pineal gland, epiphysis, thyroid hormones, adrenal gland, cortex and medulla hormones, other endocrine hormones, endocrine functions of pancreas and diabetes, hormones affecting calcium metabolism, bone physiology, growth factors and growth physiology, sex differentiation and development, female reproductive physiology and hormones, ovulation cycle, puberty, menopause, pregnancy, birth and lactation, male reproductive physiology and hormones.

**Microbiology**

Actinomyces, Nocardia, Cardiobacterium, introduction to parasitology, Trichomonas, Pneumocystis carinii, plasmodiums, other apicomplexa, other blood, tissue and body cavity protozoa, introduction to helminthology, general characteristics, cestodes, trematodes, nematodes, superficial fungi, systemic fungi, antifungal drugs, introduction to entomology, classification of medically important arthropods, flies and parasitism, lice, fleas, wood

dry and parasitism, general characteristics of arthropods, arthropod control methods, mites and parasitism.

**Histology and Embryology**

Genital system development, male genital system histology: testes and excretory ducts, accessory genital glands (vasicula seminalis, prostate, bulbo-urethral glands), penis, semen, female genital system histology: ovary, tuba uterina, uterus, vagina, external genital organs, mammary gland, assisted reproductive techniques, development and histology of pituitary and epiphysis, development and histology of thyroid and parathyroid glands, development and histology of adrenal gland and endocrine pancreas.

**Biochemistry**

General structures and mechanisms of action of hormones, thyroid hormones, pancreas and GIS hormones, adrenal gland (renin-angiotensin system) hormones, steroid hormones of gonads, bone tissue biochemistry, calcium, phosphorus metabolism, hypothalamus and pituitary hormones, hormone determination methods.

**Module 9 and 10:** Theoretical explanation of the problems associated with the courses described in this course board with the co-operation of related disciplines.

**TFYD 201 Reading and Speaking in a Foreign Language (English):**

To be able to read and comprehend texts written in the field or outside the field at an advanced level of difficulty, to write texts using the terminology in the field, to express thoughts orally by producing the sounds in the English language correctly and using the terminology in the field.

**TFYD 202 Professional Foreign Language I :**

To read and understand the literature related to clinical and basic sciences and to use the terminology in these fields correctly in written and oral form, to communicate with colleagues in written and oral communication in academic activities.

**Prerequisite:** TFYD 201

## PERIOD III

### TERM III COURSE COMMITTEES

#### COURSE BOARD

3 Weeks / 96 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>	
Internal Medicine	13	-	13	
General Surgery	10	-	10	
Child Health And Diseases	15	-	15	
Neurology	6	-	6	
Cardiology	5	-	5	
Chest Diseases	5	-	5	
Infectious Diseases	3	-	3	
Gynaecology and Obstetrics	2	-	2	
Eye Diseases	2	-	2	
Ear Nose Throat	2	-	2	
Dermatology	1	-	1	
Orthopaedics and Traumatology	4	-	4	
Public Health	6	-	6	
First Aid	4	-	4	
Module 1	6	-	6	
Module 2	6	-	6	
<hr/>				
<b>TFYD 301 - Professional Foreign Language</b>	<b>II</b>	<b>6</b>	<b>-</b>	<b>6</b>
<b>TOTAL</b>	<b>96</b>	<b>-</b>	<b>96</b>	

#### COURSE TOPICS

##### Internal Medicine

Approach to the patient and anamnesis, fever, pulse, blood pressure measurement, head and neck examination, abdominal examination, lymphatic system examination, haematological examination.

##### General Surgery

Anamnesis and symptomatology in surgery, abdominal examination in surgery, breast examination, proctological examination, preoperative and postoperative evaluation, diagnostic methods in surgery.

##### Child Health and Diseases

Paediatric history taking, physical examination and evaluation, vital signs in children, circulatory system examination in children, respiratory system examination in children, abdominal examination in children, musculoskeletal system examination in children, head and neck examination in children, lymphatic system examination, neonatal examination, neurological examination of newborn and infant, evaluation of growth.

##### Neurology

Introduction to neurological sciences and auxiliary examination methods in neurology, pyramidal and peripheral system semiology, cerebellar system and tonus semiology, semiology of muscle diseases, sensory semiology.

##### Cardiology

Anamnesis and symptoms in heart diseases, cardiac examination, heart murmurs, venous pulse examination, arterial pulse and peripheral vascular examination.

**Chest Diseases**

Respiratory system examination, respiratory system basic symptoms, diagnostic methods.

**Infection**

Semiology of CNS infections, semiology of systemic infectious diseases, systemic infectious diseases and organomegalies.

**Gynaecology and Obstetrics**

Obstetric and gynaecological anamnesis, examination and diagnostic methods in gynecological diseases.

**Eye Diseases**

Eye examination methods, anatomy and physiology of the eye, visual phenomena.

**Ear Nose Throat**

Examination and diagnostic methods in otolaryngology and head and neck surgery.

**Dermatology**

Examination and diagnostic methods of skin diseases.

**Orthopaedics and Traumatology**

Approach to the traumatised patient, movement system examination, emergency, first aid.

**Public Health**

Disease and health, stages of development in therapeutic medicine, stages of development in preventive medicine, the birth and development of public health sciences, stages of development in social medicine, contemporary views in medicine and the aim of medicine.

**First Aid**

Basic life support, advanced life support, general treatment principles in poisoning.

**Module 1 and 2**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**CELL AND TISSUE BOARD**

4 Weeks / 114 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Pharmacology	26	-	26
Pathology	46	8	54
Allergy Immunology	7	-	7
Nuclear Medicine	3	-	3
Genetics	6	-	6
Module 3	6	-	6
Module 4	6	-	6
<hr/>			
<b>TFYD 301 - Professional Foreign Language</b>	<b>II 6</b>	<b>-</b>	<b>6</b>
<b>TOTAL</b>	<b>106</b>	<b>8</b>	<b>114</b>

**CELL AND TISSUE BOARD****Pharmacology**

General concepts in pharmacology, routes of administration of drugs, passage of drugs through biological membranes, distribution of drugs, biotransformation of drugs, excretion of drugs, dose-concentration relationship, mechanism of action of drugs, receptor concept and drug-receptor relationship, factors that change the effect of drugs, interactions between drugs, toxic effects of drugs, principles of treatment in acute poisoning, pharmacogenetics, prescribing.

**Pathology**

Causes of cell injury, cell injury types and morphology, growth and differentiation, acute inflammation, chronic inflammation, regeneration, repair with connective tissue, wound healing, oedema, hyperaemia, congestion, bleeding, haemostasis and thrombosis, embolism, infarction and shock, immune system cells, cytokines and hla, immune mechanisms of tissue damage, autoimmune diseases, immunodeficiency diseases, amyloidosis, neoplasia definition and nomenclature, characteristics of benign and malignant neoplasms, epidemiology, carcinogenesis, biology of tumour growth, etiology of cancer, tumour immunology, clinical findings of neoplasm, mutations and mendelian diseases, multifactorial inherited diseases, atypical inherited diseases, environmental pollution, chemical damage, physical injury, protein-energy malnutrition, vitamin and trace element deficiencies, diet, systemic diseases and cancer, congenital malformations, deformations, perinatal infections, prematurity, IU growth retardation, neonatal diseases, paediatric tumours, practice.

**Allergy Immunology**

Immunological basis of diseases, etiopathology of allergic diseases, Immunological tissue damage, Major Histocompatibility complex antigen system.

**Nuclear Medicine**

Nuclear medicine in oncology, biological effects of radiation, radiation injury.

**Genetics**

Molecular diagnosis and molecular pathology methods, autosomal chromosome diseases, genetic basis of cancer, sex chromosomes and anomalies.

**Public Health**

Disease and health, stages of development in therapeutic medicine, stages of development in preventive medicine, the birth and development of public health sciences, stages of development in social medicine, contemporary views in medicine and the aim of medicine.

**Modules 3 and 4**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**BOARD**

4.5 Weeks / 140 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Pathology	8	2	10
Pharmacology	22	-	22
Public Health	37	-	37
Child Health and Diseases	20	-	20
Infectious Diseases	19	-	19
Clinical Microbiology	4	1	5
Dermatology	4	-	4
Clinical Biochemistry	3	-	3
Module 5	6	-	6
Module 6	6	-	6
<b>TFYD 301-Occupational Foreign Language II</b>	<b>8</b>	<b>-</b>	<b>8</b>
<b>TOTAL</b>	<b>137</b>	<b>3</b>	<b>140</b>

**BOARD****Pharmacology**

Basic principles of infection therapy, penicillins, tetracyclines, narrow spectrum CTs and other beta lactam antibiotics, anti-tuberculosis drugs, cephalosporins, macrolides and lincosamides, amphenicolics, aminoglycosides, fluroquinolones, sulfonamides and combinations, antifungal drugs, antiamic drugs and

other antiprotozoal drugs, antimalarial and anthelmintic drugs, interactions between antimicrobial drugs and drugs used against ectoparasites, antiviral drugs, antiseptics and disinfectants.

### **Public Health**

Human ecology, drinking and utility water, noise pollution, air pollution, pollution and wastes, unsanitary establishments and environmental impact assessment principles of public administration organisation in health services health manpower, financing in health services, introduction to epidemiology, epidemiological approach to the occurrence of diseases, description of events related to health and disease, examination of the demographic structure of society, evaluation of health: Criteria used in epidemiology infection and infectious diseases, resistance and immunity to infections, immunisation and treatment with vaccines and serums, methods of fighting infectious diseases, immunisation studies in Turkey, epidemiological examination of epidemics, fight against acute respiratory infections, fight against diarrhoeal diseases, malaria war, rabies war, drug protection and personal hygiene.

### **Pathology**

Classification of infectious agents, defence barriers of the body against infection, disease-causing mechanisms of infectious agents, special techniques in the diagnosis of infectious agents, inflammatory responses to infectious agents, practice.

### **Child Health and Diseases**

Childhood streptococcal infections, childhood upper respiratory tract infections, chicken pox, mumps and scarlet fever, childhood tuberculosis, diphtheria, pertussis and tetanus, infectious mononucleosis and CMV, measles and rubella, childhood infectious diarrhoea and ORS, childhood CNS infections and poliomyelitis, childhood viral hepatitis, childhood vaccination practices, intrauterine infections.

### **Infection and Clinical Bacteriology**

Examination and terminology in infectious diseases, acute hepatitis, malaria, rabies, infectious diarrhoea, approach to the febrile patient, sepsis, food poisoning, brucella, meningitis, AIDS, nosocomial infections.

### **Clinical Microbiology**

Resistance mechanisms in microorganisms, laboratory methods and interpretation in infectious diseases, practical application.

### **Dermatology**

Bacterial infections of the skin, superficial fungal infections of the skin, parasitic infections of the skin, viral infections of the skin.

### **Clinical Biochemistry**

Introduction to clinical biochemistry, interpretation of tests and error sources in clinical biochemistry, acute phase reactants.

### **Modules 5 and 6:**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

## RESPIRATORY CIRCULATORY COURSE BOARD

4 Weeks / 124 hours

<u>Course Name</u>	<u>Theoretica</u>	<u>Application</u>	<u>Total</u>
Pharmacology	30	-	30
Pathology	18	4	22
Anaesthesiology	3	-	3
Child Health and Diseases	8	-	8
Chest Diseases	10	-	10
Cardiology	16	-	16
Public Health	4	-	4
Radiology	6	-	6
Nuclear Medicine	3	-	3
Ear Nose Throat	2	-	2
Module 7	6	-	6
Module 8	6	-	6
<b>TFYD 301-Vocational Foreign Language II</b>	<b>8</b>	<b>-</b>	<b>8</b>
<b>TOTAL</b>	<b>120</b>	<b>4</b>	<b>124</b>

## RESPIRATORY-CIRCULATORY COURSE BOARD

### Pharmacology

Antihypertensive drugs, peripheral vasodilators, beta adrenergic receptor blockers, antianginal drugs, hypolipidaemic drugs, cardiac glycosides and other drugs used in heart failure, antiarrhythmic drugs, neurotransmitters and general properties of OSS drugs, parasympathomimetic drugs, parasympatholytics and anticholinesterases, sympathomimetic drugs, sympatholytic drugs, nicotine and ganglion stimulants, ganglion blockers, drugs used in coagulation disorders, bronchodilator drugs and other antiasthmatic drugs, mucolytic drugs, antitussive drugs and expectorants.

### Pathology

Pathology of vascular diseases, atherosclerosis and myocardial infarction, endocardial and valvular diseases, myocarditis and cardiomyopathies, pericarditis, pathology of upper respiratory tract diseases, chronic obstructive pulmonary diseases, congenital anomalies of the respiratory tract, atelectasis and vascular lung diseases, diffuse interstitial lung diseases, pulmonary infections, pulmonary tuberculosis, pathology of lung tumours, pleural diseases, practice.

### Child Health and Diseases

Acute rheumatic fever, congenital heart disease, childhood heart failure, wheezy infants and cystic fibrosis, childhood pneumonia.

### Chest Diseases

Respiratory system defence mechanisms, pulmonary tuberculosis, smoking and lungs, pneumonia, pleural diseases, respiratory failure.

### Cardiology

Valvular heart diseases, infective endocarditis, cardiomyopathies, pericarditis, coronary syndromes, ECG, arrhythmias, heart failure, hypertension.

### Ear Nose Throat

Stridor and dyspnoea, tracheostomy, hoarseness.

### Public Health

Chronic diseases epidemiology, tuberculosis war, AIDS epidemiology.

### Radiology

Radiological anatomy of the lung, radiological examination methods of the lung, parenchymal lesions of the lung, benign and malignant pathologies of the lung, radiological methods in heart diseases.

### Anaesthesiology

Definition and history of anaesthesia, oxygen therapy, hypoxia.

### **Nuclear Medicine**

Scintigraphic methods in lung and heart diseases.

### **Modules 7 and 8:**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

### **COURSE BOARD**

4.5 Weeks / 130 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Pharmacology	6	-	6
Pathology	18	4	22
Child Health and Diseases	6	-	6
General Surgery	10	-	10
Internal Medicine	28	-	28
Public Health	28	-	28
Radiology	5	-	5
Nuclear Medicine	3	-	3
Clinical Biochemistry	2	-	2
Module 9	6	-	6
Module 10	6	-	6
<b>TFYD 301-Vocational Foreign Language II</b>	<b>4</b>	<b>-</b>	<b>4</b>
<b>TFYD 302-Foreign Language for Business Life</b>	<b>4</b>	<b>-</b>	<b>4</b>
<b>TOTAL</b>	<b>126</b>	<b>4</b>	<b>130</b>

### **COURSE BOARD**

#### **Pharmacology**

Drugs used in the treatment of peptic ulcer, laxative and purgative drugs, antidiarrhoeal drugs, emetic and antiemetic drugs, other drugs affecting the digestive system.

#### **Pathology**

Pathology of oral cavity and salivary glands, pathology of oesophageal diseases, non-tumour gastric diseases, gastric tumours, intestinal anomalies and enterocolitis, vascular and diverticular diseases of the intestine, inflammatory bowel diseases, intestinal tumours, appendix and peritoneal pathology, liver pathology, hepatitis, gallbladder diseases, exocrine pancreatic diseases, practice.

#### **Child Health and Diseases**

Chronic diarrhoea of childhood, childhood jaundice, nutritional and protein-energy malnutrition.

#### **(Gastroenterology)**

Endoscopic diagnosis and treatment methods, gastroesophageal reflux disease, other oesophageal diseases, dyspepsia, peptic ulcer and H. pylori, gastritis, approach to upper GI bleeding, gastric malignancies, malabsorption, small intestine and colon tumours, GI endocrine tumours, inflammatory bowel diseases, irritable bowel syndrome, diarrhoea and constipation, liver function tests, chronic viral hepatitis, alcoholic liver diseases, metabolic and immune liver diseases, hepatotoxicity, jaundice and differential diagnosis, portal hypertension, liver cirrhosis, hepatic encephalopathy, acute and chronic pancreatitis, liver and pancreatic tumours, gallbladder and biliary tract diseases.

#### **Public Health**

The importance of nutrition in the protection of health, adequate and balanced nutrition, determination of the nutritional status of the community and the individual, nutrition of risky groups, anemias, protein-energy malnutrition and rickets, nutritional problems and solutions in Turkey, food sanitation, early diagnosis, health education, health management in Turkey and the world, health level and problems in Turkey, first and emergency aid, medical measures in social disasters, poisoning and first aid, occupational health, occupational accidents and occupational diseases, school health, health legislation.

**General Surgery**

Acute abdomen, acute appendicitis, intestinal obstructions.

**Radiology**

GIS anatomy and radiological methods radiology of esophageal radiology of gastro-duodenal , radiology of small intestine diseases, radiology of large intestine diseases.

**Nuclear Medicine**

Esophageal, gastric and intestinal scintigraphy, hepatobiliary scintigraphy, metabolic imaging in nuclear medicine.

**Clinical Biochemistry**

Metabolism and digestive system biochemistry.

**Module 9 and 10 :**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**COURSE BOARD**

3 Weeks / 80 hours

<b>Course Name</b>	<b>Theoretical</b>	<b>Application</b>	<b>Total</b>
Pharmacology	7	-	7
Pathology	9	2	11
Child Health and Diseases	18	-	18
Clinical Biochemistry	4	-	4
Internal Medicine	22	-	22
Module 11	6	-	6
Module 12	6	-	6
<b>TFYD 302-Foreign Language for Business Life</b>	<b>6</b>	<b>-</b>	<b>6</b>
<b>TOTAL</b>	<b>78</b>	<b>2</b>	<b>80</b>

**COURSE BOARD****Pharmacology**

Antianemic drugs, drugs used in megaloblastic anaemias, antineoplastic drugs, immunomodulators,

**Pathology**

Pathology of spleen and thymus, pathology of bone marrow, basic functions and pathology of reticuloendothelial system, pathology of hodgkin's disease, pathology of non-hodgkin's lymphomas, bleeding diseases, practice.

**Child Health and Diseases**

Anemias and classification, haemoglobinopathies, immunological methods, hereditary coagulation disorders, solid tumours in childhood, hepatosplenomegaly, blood products and transfusion in childhood.

**(Haematology and Oncology)**

Haematopoiesis, peripheral smear, classification of anaemias, iron deficiency anaemia, megaloblastic anaemias, haemolytic anaemias, aplastic anaemia, bleeding diathesis and approach to the bleeding patient, thrombocytopenia and qualitative platelet diseases, haemophilia and other coagulation factor deficiencies, diffuse intravascular coagulation, basic concepts in oncology, etiology of cancer, paraneoplastic syndromes, approach to LAP and hepatosplenomegaly, myeloproliferative diseases, acute and chronic leukaemias, hodgkin's disease and non-hodgkin's lymphomas, paraproteinemias and M. myeloma.

### **Clinical Biochemistry**

Biochemical tests in haematopoietic system diseases.

### **Modules 11 and 12**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

### **ENDOCRINE COURSE BOARD**

6 Weeks / 176 hours

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>
Pharmacology	18	-	18
Pathology	27	4	31
Child Health and Diseases	22	-	22
Internal Medicine	32	-	32
Gynaecology and Obstetrics	18	-	18
Public Health	10	-	10
Radiology	5	-	5
Urology	10	-	10
Nuclear Medicine	2	-	2
Clinical Biochemistry	4	-	4
Module 13	6	-	6
Module 14	6	-	6
<b>TFYD 302-Foreign Language for Business Life</b>	<b>12</b>	<b>-</b>	<b>12</b>
<b>TOTAL</b>	<b>172</b>	<b>4</b>	<b>176</b>

### **ENDOCRINE COURSE BOARD**

#### **Pharmacology**

Introduction to endocrine system pharmacology, drugs used in thyroid function disorders, calcitropic drugs, insulin, oral antidiabetic drugs and glucagon, corticosteroids, antagonists and ACTH, androgens, anabolic steroids and antiandrogenic drugs, estrogens, progestins and antagonists, oral contraceptives, oxytocic drugs, drugs affecting water-salt and acid-base balance, nephrotoxicity and dose adjustment of pharmacological agents, drugs used in urinary tract infections, otocoids.

#### **Pathology**

Congenital abnormalities of the urinary system, pathology of glomerular diseases, tubulointerstitial diseases, pathology of vascular diseases of the kidney, renal parenchymal tumours, pathology of bladder, ureter and urethra, obstructive uropathies, pathology of prostate diseases, testicular tumours, pathology of vulva and vagina diseases, pathology of cervix diseases, pathology of corpus uteri diseases, ovarian pathology, placenta pathology and gestational trophoblastic diseases, pathology of breast diseases, pituitary, hypothalamus pathology, thyroid pathology, parathyroid pathology, surrenal pathology, endocrine pancreas and diabetes pathology, practice.

#### **Child Health and Diseases**

Adrenogenital syndrome, ambigüegenitalia, hypoglycaemia in childhood, hypothyroidism in childhood, diabetes mellitus in childhood, glomerulonephritis, pituitary diseases, evaluation of growth and development in children, short stature in children, intrauterine development, nephrotic syndrome clinic, tubular dysfunctions, puberty and puberty disorders.

#### **(Nephrology and Endocrinology)**

Introduction to endocrine system, hypothalamus, pituitary diseases, physiopathology of the surrenal gland, endocrine tests, simple goitre, thyroiditis, thyroid carcinomas, hyperthyroidism and hypothyroidism, parathyroid diseases, cushing's and addison's disease, endocrine hypertension, diabetes mellitus, hyperlipidaemias and obesity, osteoporosis, gonad diseases, renal physiology, urine examination and changes in urine quantity, fluid-electrolyte balance, acid-

base metabolism disorders, hypertension and kidney, acute renal failure, chronic renal failure, nephrotic syndrome, systemic diseases and kidney, overview of pyelonephritis and tubulopathies, glomerulopathies.

#### **Gynaecology**

Menstrual physiology, vulvar cancers, trophoblastic diseases, endometrial cancers, ovarian cancers, cervical cancers, myoma uteri, infertility, lower and upper genital tract infections.

#### **Public Health**

Population problem and family planning services in the world and in Turkey, family planning methods and their reliability, maternal mortality, abortion problem.

#### **Radiology**

Imaging in endocrine system pathologies, breast radiology, radiological evaluation of urinary system, radiology of urinary system infectious diseases, radiology of urinary system tumours.

#### **Urology**

Symptomatology in genitourinary system diseases, urinary system stone disease, pathophysiology of obstructive uropathy, micturition physiology incontinence-functional and neurogenic pathogenesis, male infertility, role of urologist in acute renal failure, haematuria from urological point of view, pathophysiology of sexual dysfunction, urine composition disorders.

#### **Nuclear Medicine**

Kidney scintigraphy, thyroid and parathyroid scintigraphy.

#### **Clinical Biochemistry**

Biochemistry of kidney diseases, endocrine disorders and biochemical tests, biochemistry of diabetes.

#### **Modules 13 and 14**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

### **, , MUSCULOSKELETAL AND SENSORY SYSTEM DISEASES COURSE BOARD**

6 Weeks / 170 hours

<u>Course Name</u>	<u>Theoretica</u>	<u>Application</u>	<u>Total</u>
	<b>!</b>		
Pharmacology	15	-	15
Pathology	22	4	26
Child Health	6	-	6
Anaesthesiology	6	-	6
Dermatology	2	-	2
Physical Medicine and Rehabilitation	7	-	7
Eye	8	-	8
Ear Nose Throat	8	-	8
Neurology	14	-	14
Neurosurgery	8	-	8
Orthopaedics and Traumatology	18	-	18
Psychiatry	10	-	10
Child Mental Health	3	-	3
Radiology	8	-	8
Nuclear Medicine	3	-	3
Clinical Biochemistry	4	-	4
Module 15	6	-	6
Module 16	6	-	6
<b>TFYD 302-Foreign Language for Business Life</b>	<b>12</b>	<b>-</b>	<b>12</b>
<b>TOTAL</b>	<b>166</b>	<b>4</b>	<b>170</b>

## **, , MUSCULOSKELETAL AND SENSORY DISEASES COURSE BOARD**

### **Pharmacology**

Basics of CNS pharmacology, general anaesthetics, local anaesthetics, neuromuscular blocking drugs and central muscle relaxants, sedative drugs and hypnotics, neuroleptic drugs, antidepressants and antimanic drugs, opioid analgesics, antiepileptic drugs, drugs used in the treatment of Parkinson's disease, drug abuse and drug addiction, non-steroidal anti-inflammatory drugs.

### **Pathology**

Peripheral nerve tumours, CNS inflammatory diseases, CNS tumours, CNS demyelinating diseases, CNS vascular diseases pathology, CNS degenerative diseases, pathology of skeletal system tumours, pathology of muscle diseases, bone, joint metabolism disorders, pathology of bone and joint infectious diseases, pathology of collagen tissue diseases, pathology of soft tissue tumours, pathology of soft tissue infections, dermatopathology, practical.

### **Child Health and Diseases**

Epilepsy and convulsions in childhood, congenital muscular disorders.

### **Anaesthesiology**

Local anaesthesia and techniques, intubation technique, poisoning, premedication, inhalation anaesthesia and general anaesthetics, cardiopulmonary resuscitation.

### **Dermatology**

Structure and functions of the skin.

### **Physical Medicine and Rehabilitation**

FTR patient approach and modalities used, evaluation of mono and polyarthritides, rheumatoid arthritis and rehabilitation, spondyloarthropathies and rehabilitation, regional pain syndromes, osteoporosis and treatment, low back and knee pain and rehabilitation.

### **Eye Diseases**

Eye muscle innervation and diseases, light refracting formations and diseases, eye layers and diseases, tear structure, drainage and lacrimal system diseases, causes of red eye, glaucoma, optic nerve, visual pathways and optic neuropathies.

### **Ear Nose Throat**

Acute-chronic otitis and its complications, hearing loss, vertigo and its causes, peripheral facial paralysis, facial pain and sinusitis, neck masses.

### **Neurology**

Functional parts of the central nervous system and peripheral nervous system, cerebral blood circulation properties and flow, autonomic nervous system and multiple sclerosis diseases, headaches, epilepsy, cranial nerves, consciousness, co-operation and orientation disorders, upper cognitive functions and disorders, movement disorders, peripheral nervous diseases, nerve-muscle junction diseases, muscle diseases.

### **Neurosurgery**

Subarachnoid haemorrhage, increased intracranial pressure syndrome, head traumas, brain tumours, spinal tumours, medulla spinalis compression, disc herniations, peripheral nerve injuries.

### **Orthopaedics and Traumatology**

Approach to the traumatised patient, fracture-dislocations, sports injuries and arthroscopy, congenital hip dislocation, septic arthritis and osteomyelitis in children, orthopaedic, peripheral nerve injuries and reconstructions, degenerative joint disease. conservative treatment and orthopedic surgery, hand traumatology and hand surgery, microsurgery and replantation, hand infections, tenosynovitis and rheumatoid arthritis, orthopedic surgery in rheumatic joint diseases, bone development disorders, column vertebrae traumas, low back pain, column vertebrae diseases, congenital foot anomalies, perthes, osteochondritis, skeletal system tumours.

**Psychiatry**

Theories of personality and psychopathology, psychiatric history taking and mental status examination, schizophrenic delusional and other psychoses, mood disorders, anxiety disorders, somatoform disorders, psychopharmacology, emergency psychiatry, dissociative disorders and trauma, delirium, dementia and other cognitive disorders, personality disorders, alcohol and substance use disorders, psychotherapies, forensic psychiatry.

**Child Mental Health**

Psychosocial development of the child, child abuse and neglect, disruptive behaviour disorders, pervasive developmental disorders and psychotic disorders, mental retardation and specific learning disorders, elimination disorders and eating disorders.

**Radiology**

Leukomotor system radiological anatomy, leukomotor system examination methods, CNS radiological examination methods, CNS radiological anatomy, radiological approach to head trauma, radiological approach in SVO, radiological imaging of paranasal sinuses, orbital radiology.

**Nuclear Medicine**

CNS system and nuclear medicine

**Clinical Biochemistry**

Biochemistry in bone metabolism diseases

**Modules 15 and 16 :**

Theoretical explanation of the problems associated with the courses taught in this course with the co-operation of related disciplines.

**TFYD 301 Professional Foreign Language II :**

Writing scientific texts in the field of clinical and basic sciences, making presentations in seminars, conferences and similar activities and expressing their thoughts in discussion environments.

**Prerequisite:** TFYD 202

**TFYD 302 Foreign Language for Business Life :**

Literature review studies in clinical and basic sciences; working on texts based on laboratory studies in basic sciences; development of skills to use English correctly and effectively in patient diagnosis, treatment and clinical monitoring stages in clinical sciences.

**Prerequisite:** TFYD 301

## SEMESTER IV

<u>Course Name</u>	<u>Theoretical</u>	<u>Application</u>	<u>Total</u>	<u>Week</u>
TFC 401 General Surgery	10	25	35	10
TFC 402 Gynaecology and Obstetrics	10	25	35	7
TFD 401 Internal Diseases	10	25	35	8
TFD 402 Child Health and Hst	10	25	35	10
TFD 403 Forensic Medicine	10	25	35	2
TFD 404 Cardiology	10	25	35	3

### GAZIANTEP UNIVERSITY FACULTY OF MEDICINE 4TH INTERNSHIP EDUCATION PROGRAMME

INTERNSHIPS	INTERNSHIP DURATION				
GENERAL SURGERY	10 WEEKS	GROUP-1	GROUP-2	GROUP-3	GROUP-4
PAEDIATRIC HEALTH AND DISEASES	10 WEEKS	GROUP-2	GROUP-3	GROUP-4	GROUP-1
GYNAECOLOGY AND OBSTETRICS + CARDIOLOGY	7 WEEKS + 3 WEEKS	GROUP-3	GROUP-4	GROUP-1	GROUP-2
DISEASES + FORENSIC MEDICINE	8 WEEKS + 2 WEEKS	GROUP-4	GROUP-1	GROUP-2	GROUP-3

#### **NOT :**

**THE LAST 2 ( ) DAYS OF EACH INTERNSHIP ARE INTERNSHIP EXAMS.**

**-In the Gynaecology and Obstetrics Internship + Cardiology internship, students will first complete their major internship, and in the last 3 weeks they will do their minor internship.**

**-Internal + In Forensic Medicine Internships students will first complete their major internships the last 2 weeks they do their minor internships.**

#### 4. COURSE CONTENTS OF CLASS INTERNSHIPS

##### **TFC 401 General Surgery Internship**

Peptic ulcer complications, approach in treatment. acute cholecystitis and its treatment, chronic cholecystitis and its treatment, upper gastrointestinal bleeding, diagnosis and treatment approach, lower gastrointestinal bleeding, diagnosis and treatment approach, surgical approaches in colorectal cancers, surgical approach in liver hydatid cysts, surgical approach in acute appendicitis, acute abdomen, diagnosis and treatment approach, pancreatic cancers, hemorrhoids, anal fissure and treatment methods, anorectal abscess, fistulas and treatment methods, approach to treatment of thyroid nodules, approach to treatment of obstructive jaundice, approach to diagnosis and treatment of breast cancer, thyroid surgical complications, oesophageal variceal bleeding, approach to treatment, abdominal wall hernias, surgical approach, thyroid cancers, surgical approach, colon diverticular disease, volvulus, minor surgical interventions, intestinal

stomas and complications, gastric tumours, preoperative preparation, postoperative care, surgical approach in inflammatory bowel diseases, surgical spleen diseases, gastrointestinal system diverticula, tubes, probes and catheters used in general surgery, their intended use, suture materials, evaluation of routine laboratory findings in the surgical patient, nutrition in surgery, surgical infections, intraabdominal abscesses, liver abscesses, surgical approach, intestinal obstructions (small intestine) treatment approach, intestinal obstructions (large intestine) treatment and approach, esophageal cancers, acute pancreatitis, chronic pancreatitis, abdominal trauma, shock, fluid-electrolyte acid-base balance, asepsis, antisepsis, sterilisation.

#### **TFC 402 Gynaecology Internship**

Obstetric and gynaecological anamnesis, embryology of the genital system, surgical anatomy of the genital system, antenatal diagnosis and care, menstrual physiology, pharmacological teratogens, epidemiology of gynaecological cancers, precancerous lesions of the cervix and vulva, paediatric and adolescent gynaecology, puberty and puberty deviations, ectopic pregnancy, pregnancy and gynaecological cancers, intersexuality, fertility control and contraception, anatomy and physiology of placenta, fetal membranes and amniotic fluid, maternal adaptation to pregnancy, spontaneous abortion and recurrent pregnancy losses, cervical insufficiency, cervical cancers, ovarian cancers, gestational trophoblastic diseases, cardiac and pulmonary diseases in pregnancy, renal diseases in pregnancy, gastroenterological diseases in pregnancy, endocrine diseases in pregnancy, multiple pregnancies, antenatal foetal monitoring tests, hypertension and pre-eclampsia, vulva and vagina cancers, third trimester bleeding, intrauterine growth disorders, ovulation induction, endometrial cancers, myoma uteri, endometrial hyperplasia, EMR, infertility, surmaturation and induction, normal labour and operative delivery, abnormal fetal presentation, intrapartum fetal monitoring, puerperium and puerperal infection, lactation and prolactin disorders, pelvic relaxation and urinary incontinence, colposcopy, preterm delivery, immune and non-immune hydrops fetalis, abnormal uterine bleeding and amenorrhoea, dysmenorrhoea and premenstrual syndrome, endometriosis, menopause, HRT and gynaecological and breast cancers, lower genital tract infections, upper genital tract infections, hysterectomy, chronic pelvic pain, USG and Doppler use in pregnancy, hirsutism and PCO, endoscopic surgery in gynaecology, preoperative and postoperative management, pregnancy and haematological diseases, sexual dysfunction, hypovolemic shock, obstetric bleeding, obstetric anaesthesia and anaesthesia, vaccination programmes in pregnancy

#### **TFD 401 Internship**

Gastrointestinal system diseases, kidney and urinary system diseases, haematology, oncology, endocrine system and metabolism diseases, rheumatology and immune system diseases

#### **TFD 402 Child Health and Diseases Internship**

Nutrition, infections, gastrointestinal system diseases, respiratory system diseases, circulatory system diseases, fluid and electrolyte metabolism and diseases, haematological diseases, endocrine and metabolic diseases, urinary system diseases, oncological diseases, cardiovascular system diseases, neonatal period diseases, immunological, allergic, rheumatological diseases, neuromuscular system diseases, genetic diseases and congenital malformations

#### **TFD 403 Forensic Medicine Internship**

Death, symptoms of death, putrefaction, discovery examination, autopsy, asphyxia, wounds, forensic reports, pregnancy, childbirth, abortion, infanticide, offences against morality.

#### **TFD 404 Cardiology Internship**

Acute rheumatic fever, rheumatic heart diseases - mitral stenosis-mitral regurgitation-aortic stenosis-aortic regurgitation-, coronary artery diseases and acute coronary syndromes, myocarditis, pericardial diseases, rhythm-conduction disorders, laboratory (ECG etc.) and recent technological developments in cardiovascular system

**PERIOD V**

<b><u>Course Name</u></b>	<b><u>Theoretic al</u></b>	<b><u>Application</u></b>	<b><u>Total</u></b>	<b><u>Week</u></b>
TFC 501 Ear Nose Throat	10	25	35	3
TFC 502 Eye Diseases	10	25	35	3
TFC503 Orthopaedics and Traumatology	10	25	35	3
TFC 504 Urology	10	25	35	3
TFD 501 Chest Diseases	10	25	35	3
TFD 502 Infectious Disease and Clinical Care.	10	25	35	3
TFD 503 Psychiatry	10	25	35	3
TFD 504 Neurology	10	25	35	3
TFD 505 Dermatology	10	25	35	3
Elective	10	25	35	3
Elective	10	25	35	3
Elective	10	25	35	3
Elective	10	25	35	3

**INTERNSHIPS**

<b><u>Course Name</u></b>	<b><u>Theoretic al</u></b>	<b><u>Application</u></b>	<b><u>Total</u></b>	<b><u>Week</u></b>
TFC 505 Anaesthesiology	10	25	35	3
TFC506 Thoracic Surgery	10	25	35	3
TFC 507 Child Surgery	10	25	35	3
TFC508 Plastic Surgery	10	25	35	3
TFC 509 Neurosurgery	10	25	35	3
TFC 510 Cardiovascular Surgery	10	25	35	3
TFD 506 Nuclear Medicine	10	25	35	3
TFD 507 Physical Medicine and Rhb.	10	25	35	3
TFD 508 Radiology	10	25	35	3
TFD 509 Child Mental Health and Illness.	10	25	35	3

**GAZIANTEP UNIVERSITY OF MEDICINE 5TH  
GRADE EDUCATION PROGRAMME**

INTERNSHIPS													
ENT PATIENTS	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13
EYE HOSPITAL	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1
ORT.VE TRAV.	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2
UROLOGY	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3
CHEST PATIENTS	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4
INFECTIOUS DISEASE AND CLINICAL CARE.	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5
PSYCHIATRY	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6
NEUROLOGY	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7
DERMATOLOGY	GROUP-9	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8
SELECTIVE	GROUP-10	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9
SELECTIVE	GROUP-11	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10
SELECTIVE	GROUP-12	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11
SELECTIVE	GROUP-13	GROUP-1	GROUP-2	GROUP-3	GROUP-4	GROUP-5	GROUP-6	GROUP-7	GROUP-8	GROUP-9	GROUP-10	GROUP-11	GROUP-12

**NOTE:** INTERNSHIP EXAMS WILL BE HELD ON THE LAST DAY OF EACH INTERNSHIP.

## 5. COURSE CONTENTS OF CLASS INTERNSHIPS

### COMPULSORY INTERNSHIPS

#### **TFC 501 Ear Nose Throat Diseases Internship**

Introduction to ENT, examination methods in ENT and head and neck surgery, hearing losses, tinnitus, auricle-external auditory canal diseases and otalgia, acute otitis media, common ear effusions, chronic otitis media and complications, peripheral, facial paralysis, temporal bone fractures, otosclerosis, vertigo, basic audiology, approach to the hearing impaired, epis-taxis, nasal obstruction, sinusitis, head and facial pain, nasal-sinus and nasopharynx tumours, allergic rini and nasal polyps, tonsil and pharynx; diseases, deep neck infections, salivary gland diseases, neck masses, acute and chronic inflammatory diseases of the larynx. laryngeal paralysis, stridor in infants and children, laryngeal tumours, tracheostomy, airway and esophageal foreign bodies, approach to the emergency patient in ENT and head and neck surgery, dysphagia from otorhinolaryngological point of view. approach in neck metastases in head and neck cancers.

#### **TFC 502 Eye Diseases Internship**

Anatomy, eye examination methods, optical and refractive defects, strabismus, lid diseases and tumours, conjunctival diseases, trachoma, tears, lacrimal system diseases, corneal diseases, keratoplasties, refractive corneal surgery, cataracts, lens pathologies, intraocular lens, sclera diseases, uvea diseases, fundus examination methods, fundus diseases, retinal detachment, eye findings in systemic diseases, intraocular tumours, glaucoma, contact lenses, vitreous, orbital diseases, emergency eye diseases and treatment.

#### **TFC 503 Orthopaedics and Traumatology Internship**

Plaster and splints, compartment syndrome, bandages and dressings, skeletal and skin tractions, arthroplasty, wound dressing, hand fractures, forearm fractures, humerus fractures, fractures around the shoulder, shoulder dislocation, foot fractures, leg fractures, fractures around the knee, femur fractures, hip fractures, pelvis fractures, vertebral fractures.

#### **TFC 504 Urology Internship**

Examination methods, normal male sexual functions, fertility-sterility, uro-genital system anomalies, upper urinary system obstructions, lower urinary system obstructions, kidney tumours, prostate cancers, bladder tumours, testicular tumours,

prostatic hypertrophy, urinary system stone disease, nonspecific infections of the prostate, vesicula seminalis and urethra, urinary system tuberculosis, urogenital system traumas, penile deviations, intrascrotal masses, urinary system infections.

#### **TFD 501 Chest Diseases Internship**

Lung abscess and empyema, sarcoidosis, pulmonary hypertension and cor pulmonare, pulmonary thromboembolism, ARDS, respiratory failure, parasitic diseases of the lung, fungal diseases of the lung, pleural diseases, sleep-apnoea syndrome, mediastinum and diaphragmatic diseases, interstitial lung diseases, pneumoconiosis, bronchiectasis, cystic fibrosis, pneumothorax

#### **TFD 502 Infectious Diseases and Clinical Bacteriology Internship**

General signs and symptoms of infectious diseases, septic shock, meningitis, Brucellosis, streptococcal infections, staphylococcal infections, diphtheria, whooping cough, tetanus, gas gangrene, and other clostridium infections, food poisoning, salmonellosis, cholera, hepatitis, measles and rubella mononucleosis and similar diseases, mumps, rabies and protection, mycoplasma and chlamydial diseases, AIDS, malaria, fever.

#### **TFD 503 Psychiatry Internship**

Psychiatric interview and history taking, psychiatric symptoms and signs, psychiatric diagnoses and classification systems, somatoform disorders, organic mental disorders, mood disorders, mood disorders - subtypes, child psychiatry (destructive behaviour disorders), child psychiatry (elimination disorders), psychosomatic disorders, (liaison psychiatry), excited disorder and other psychoses, dissociative disorders, psychotherapies, anxiety disorders I, anxiety disorders II., sexual dysfunctions, schizophrenia I, schizophrenia II, alcohol and substance use disorders I, alcohol and substance use disorders II, personality disorders, sleep and impulse control disorders, adjustment disorders, drug treatment in psychiatry I, drug treatment in psychiatry II, child psychiatry (pervasive developmental disorders), child psychiatry (psychotic disorders), child psychiatry (speech disorders), child psychiatry (mental retardation and specific learning difficulties), child psychiatry (tic disorders).

#### **TFD 504 Neurology Internship**

Brief anatomy and physiology of the nervous system, cerebro-vascular diseases, disorders of consciousness, peripheral nerve diseases, epilepsies, cerebellar system and diseases, headaches, intracranial pressure increase syndrome, intracranial space-occupying masses and symptoms, extra-pyramidal system diseases, anatomy-physiology of the pyramidal system, medulla spinalis diseases, voluntary movement disorders and gait disorders, muscle diseases, sensory disorders and symptoms, function and dysfunction of cranial nerves, symptoms and causes of meningeal irritation, function and dysfunction of cranial nerves, normal and pathological reflexes.

#### **TFD 505 Dermatology Internship**

Exogenous eczemas, endogenous eczemas, psoriasis, lichen planus-pityriasis rosea, urticaria and angioedema, autoimmune bullous diseases, syphilis, nontroponeal venereal diseases, leprosy, skin tuberculosis, acne vulgaris-rosacea, alopecia-hirsutismus, nail diseases, pigment disorders, collagenous, premalignant and malignant tumours, mycosis fungoides, malignant melanoma, genodermatoses, local treatment principles, treatment of physical agents, Behçet's disease, dermatophytoses, candidiasis, parasitic diseases, viral diseases, streptococcal pyoderma, staphylococcal pyoderma.

### **INTERNSHIPS**

#### **TFC 505 Anaesthesiology Internship**

Premedication, anaesthesia, intubation and its complications, anoxia, neuromuscular conduction and neuromuscular blockers, cardio-pulmonary resuscitation, sipinal anaesthesia, local anaesthesia and local anaesthetics, blockers, drowning and treatment, poisoning, blood groups, blood transfusion (massive blood transfusion, complications and treatment). pain and pain management, approach to the patient in intensive care, anaesthesia in cardiac surgery, O<sub>2</sub> therapy, nonsterisation in anaesthesia.

#### **TFC 506 Thoracic Cardiovascular Surgery Internship**

Surgical anatomy of the thorax and thoracic incisions, diagnostic methods in thoracic surgery, malignant and benign tumours of the lung and surgical treatment, thoracic traumas, surgical diseases of the trachea and treatment, superative diseases of the lung and treatment, thoracic deformities and thoracic outlet syndrome, surgical diseases of the esophagus and treatment, approach to cardiac surgery, ischaemic diseases of the heart and surgical treatment, valvular diseases of the heart and surgical treatment, surgical diseases of the arterial system, surgical diseases of the venous system

#### **TFC 507 Paediatric Surgery Internship**

Why paediatric surgery? fluid electrolyte therapy, shock and TPN, childhood traumas, gastrointestinal demand (oesophageal atresia and TOF, neonatal intestinal obstruction, anorectal malformations, gastrointestinal bleeding, abdominal wall anomalies, Hirschsprung's disease, infantile hypertrophic pyloric stenosis, gastrointestinal bleeding, invagination, acute abdomen, functional constipation), childhood tumours (wilms, neuroblastoma, head and neck tumours, testicular tumours, haemangiomas, lymphangiomas), groin pathologies (hernia, hydrocele, cord cyst), testis (undescended testis, acute scrotum), urinary system (urinary tract infection, vesicoureteral reflux, ureterpelvic stenosis, hydronephrosis, neonatal hydronephrosis, hypospadias, phimosis, paraphimosis, circumcision and complications).

### **TFC 508 Plastic Surgery Internship**

Introduction to plastic and reconstructive surgery, development and history, physical properties of the skin, incision techniques, normal wound healing, wound healing disorders, tendon and nerve healing, grafts and applications (skin, bone, muscle, etc.), flaps classification and applications (skin, muscle, muscle-bone-skin flaps, free flaps), embryological development of the face, cleft palate and lip, benign skin flaps.grafts), flaps classification and applications (skin, muscle, muscle-bone-skin flaps, free flaps), embryological development of the face, cleft palate and lip, benign skin tumours, haemangiomas, malignant skin tumours, malignant melanoma, maxillofacial traumas-I (soft tissue traumas), maxillofacial traumas-II (facial bone fractures), thermal injuries, electrical and chemical burns, congenital anomalies (hand anomalies, ear anomalies, genitourinary anomalies) and craniofacial surgery), pressure sores, postoncological reconstruction and tissue expansion applications, emergency plastic surgery applications, temporomandibular joint diseases, suture materials and suture techniques, hand surgery and microsurgery applications, cosmetic surgery.

### **TFC 509 Neurosurgery Internship**

Patient examination, diagnostic methods, vascular diseases, trauma, spinal lesions, tumours, pain and treatment peripheral nerve injuries.

### **TFD 506 Nuclear Medicine Internship**

General definition of nuclear medicine. structure of atom and definition of radioisotope concept. radioactivity, radioactivity types and radiation units. imaging types in medicine. What is SPECT? Thyroid scintigraphy and other imaging modalities of thyroid. Scintigraphy of parathyroid and adrenal glands. Bone scintigraphy. Scintigraphic findings in osteomyelitis. Whole body scanning with I-131. bone densitometry. scintigraphic examination of bone metastases. biliary scintigraphy. Liver - spleen scintigraphy. Gastrointestinal scintigraphy. scintigraphic examination of cardiac function. scintigraphy in infectious diseases (leukocyte scintigraphy). radionuclide venography and platelet imaging. dynamic and static renal scintigraphy and RVH examination with captopril. testicular scintigraphy. radionuclide hysterosalpingography. lympho-scintigraphy. scintigraphic tumour imaging. myocardial perfusion scintigraphy. brain SPECT. treatment in nuclear medicine. What is PET?

### **TFD 507 Physical Medicine and Rehabilitation Internship**

Classification of rheumatic diseases, rheumatoid arthritis, ankylosing spondylitis and seronegative arthritis, osteoarthritis, AER, metabolic and endocrine arthritis, (gout, pseudogout, ochronosis), collagen tissue diseases, infectious arthritis, discopathies, physical therapy agents, massage and exercise, peripheral nerve injuries, paraplegia and rehabilitation, hemiplegia and rehabilitation, polioyelitis and rehabilitation, cerebral palsy and rehabilitation, hydrotherapy.

### **TFD 508 Radiology Internship**

X-ray physics, US-RGD physics, MRI physics, angiography-DSA physics, CT physics, respiratory system examination methods and PA ACC. Evaluation of radiography, respiratory system, general radiological concepts and elements lesions, inflammatory lung diseases and COPD, lung tumours, mediastinal diseases, central nervous system examination methods, cranium radiography, GIS anatomy, esophageal diseases, stomach-duodenal diseases, small intestinal diseases, large intestinal diseases, ERCP, acute abdomen, radiological evaluation of urinary system, infectious diseases of urinary system, urinary system tumours, radiological approaches in prostate diseases, biliary system examination methods, radiological algorithm, MR clinical applications, MR angiography, contrast agents in MR, MR applications in musculopelvic system, MR applications in neuroradiology, MR applications in gastrointestinal system, DSA clinical applications, intravascular interventional therapies, intravascular treatment of aneurysms and AVMs, chemo embolisation, percutaneous approaches in GI diseases, angioplasties.

### **TFD 509 Child Mental Health and Diseases Internship**

Child mental development, adolescent mental development, mental retardation, special learning disorders, speech and other pervasive developmental disorders, attention deficit hyperactivity disorder, oppositional defiant disorder, conduct disorder, enuresis and encopresis, sleep disorders in children and adolescents, eating disorders in children and adolescents, child abuse and neglect, psychopharmacology in children and adolescents.

### **TFD 506 Thoracic Surgery Internship**

Thoracic anatomy, radiology, thoracic traumas, tracheo-bronchial foreign bodies-esophageal foreign bodies, infectious diseases and surgery of the lung and pleura, chest deformities, parasitic diseases and surgery of the lung, lung and intrathoracic congenital pathologies, mediastinal benign and malignant pathologies, esophageal benign and malignant diseases and surgery, lung cancers and surgery.

**PERIOD (YEAR VI) :**

Clinical and outpatient clinic practices in this period are organised in the following segments.

<u>Course Name</u>	<u>Theoretic al</u>	<u>Application</u>	<u>Total</u>	<u>Internship Duration</u>
TFD-602 Child Health and Illness.	0	40	40	2 months
TFD-601 Diseases	0	40	40	2 months
TFC-602 Gynaecology and Obstetrics	0	40	40	2 months
TFC-601 Emergency Surgery	0	40	40	2 months
TFD-603 Rural Medicine	0	40	40	2 months
TFD-604 Mental Health and Illness.	0	40	40	1 month
TFS-601 Elective	0	40	40	1 month
			<b>TOTAL</b>	<b>12 Months</b>

Rural Medicine studies in the Family Medicine period are carried out with the co-operation of the Departments of Child Health and Diseases, Internal Medicine, Gynaecology and Obstetrics and Public Health and the co-ordination of the Dean's Office. Family Medicine students can do the elective courses covered by this semester in any department/science of the Faculty of Medicine or in the clinics of SSK and State Hospitals corresponding to these departments/sciences with the approval of the class coordinator and with the permission of the Dean's Office. Those who successfully complete the family medicine period are awarded a medical doctor diploma without any other examination. To be considered successful in this period:

1. To complete the period in each unit of the above-mentioned tranches in full, to have worked in the relevant clinics and polyclinics, to have personally delivered a sufficient number of births under supervision, to have completed the incomplete studies due to compulsory conditions.

2. At the end of each practice period, the person or authority authorised by the Dean of the Faculty must have received the qualification certificates showing that the period has been successfully completed and the required shifts have been kept.

For each of the internships in the family medicine period, the grade given to the students as "Successful" or Unsuccessful" is sent to the Registrar's Office by the Dean of the Faculty.

Students who are not successful in one or more of the Family Medicine internships are given the right to repeat the failed internship / internships until they are successful, provided that they remain within the maximum education period.

UNIVERSITY FACULTY OF MEDICINE  
6. CLASS () INTERNSHIP GROUPS EDUCATION  
YEAR ROTATION PROGRAMME

	<u>URGENT SURGICAL</u>	<u>INTERIOR DISEASE.</u>	<u>WOMAN- BIRTH</u>	<u>CHILD</u>	<u>PSYCHIATRY + SELECTED</u>	<u>PUBLIC HEALTH</u>
JULY	I	II	III	IV	V	VI
AUGUST	I	II	III	IV	V	VI
SEPTEMBER	II	III	IV	V	VI	I
OCTOBER	II	III	IV	V	VI	I
NOVEMBER	III	IV	V	VI	I	II
DECEMBER	III	IV	V	VI	I	II
JANUARY	IV	V	VI	I	II	III
FEBRUARY	IV	V	VI	I	II	III
MART	V	VI	I	II	III	IV
APRIL	V	VI	I	II	III	IV
MAY	VI	I	II	III	IV	V
JUNE	VI	I	II	III	IV	V